OPTICAL FIBER AND OPTICAL AMPLIFIER

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Abstract of JP2002252397

PROBLEM TO BE SOLVED: To provide a highly efficient optical fiber and optical amplifier which are suitable for the amplification of a 1.3-&mu m band. SOLUTION: In the optical amplifier, the optical fiber which is made of Bi-doped silica glass expressed by xBi2 O3 -yAl2 O3 -(1-x-y)SiO2 (x<y) and containing Bi2 O3 in the amount of 0.1-10.0 mol% and Al2 O3 in the amount of 2-20 mol% and conducts light amplification of the 1.3 &mu m band for semiconductor laser excitation of a 0.8 &mu m band is used.